

**Tri-County Technical College**  
Engineering Graphics Technology Department/Industrial and Engineering Technology Division  
Technical Advanced Placement (TAP) Program

**Competency Verification and Teacher Recommendation Form**

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**EGT 152 (Fundamentals of CAD)**

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**SECTION I (To be completed by the student)**

Please complete this section of the form and give it to your occupational/career center instructor.

Your Name (*PLEASE PRINT*): \_\_\_\_\_ Phone: \_\_\_\_\_

Address: \_\_\_\_\_ SSN: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

High School: \_\_\_\_\_ Grade: \_\_\_\_\_

**SECTION II (To be completed by the teacher)**

By placing my initials next to the appropriate competency statement listed on the back of this form, I verify this student has mastered major competencies of the course EGT 152 (*Fundamentals of CAD*) as defined in the approved syllabus dated January 8, 2001. I understand that in order to progress in the validation process for Technical Advanced Placement credit, a minimum of 75 percent of the competencies must be verified. Having met this requirement, I recommend this student be permitted to continue the validation process by completing the TAP exam, which I understand will be arranged through the Engineering Graphics Technology Department at Tri-County Technical College.

Teacher Name (*PLEASE PRINT*): \_\_\_\_\_

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Name of high school course(s) in which this student gained the required competencies for possible TAP advanced standing: \_\_\_\_\_

Date of course completion or expected completion: \_\_\_\_\_

Comments (if applicable): \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**Please make a copy of this form for your records and mail the original to Ms. Tonia McClain, Industrial and Engineering Technology Division Secretary, Tri-County Technical College, PO Box 587, Pendleton, SC 29670. (Questions regarding TAP procedures for EGT 152 should be directed to Mr. Roger Burgess, Department Head, Engineering Graphics Technology, at 646-1329.)**

AB: 4/7/04

**EGT 152 - COMPETENCIES (please initial each one)**

- \_\_\_\_ 1. Create Dimstyles as part of prototype drawings.
- \_\_\_\_ 2. Using Ansi Y14.5 M standards to completely dimension advanced 2-D multi view drawings.
- \_\_\_\_ 3. Using Ansi Y14.5 standards plot an advanced multi view drawing from model and paper space.
- \_\_\_\_ 4. Create blocks, Wblocks, and attributes.
- \_\_\_\_ 5. Create a Multi view drawing with orthographic and isometric views.
- \_\_\_\_ 6. Use styles and variables to control dimensions.
- \_\_\_\_ 7. Edit dimensions using the Dimstyles and the modify commands.
- \_\_\_\_ 8. Apply geometric symbols, datums, and feature control frames to multi view drawings.
- \_\_\_\_ 9. Create a multi view drawing with auxiliary views from 3-D model.
- \_\_\_\_ 10. Create and edit curves using polylines and splines.
- \_\_\_\_ 11. Create and modify text styles.
- \_\_\_\_ 12. Create section views using the hatch command.
- \_\_\_\_ 13. Use Format options to create drawing setting.
- \_\_\_\_ 14. Create and manipulate 3-D wire frame objects and dimension.
- \_\_\_\_ 15. Draw isometric circles in isoplanes.
- \_\_\_\_ 16. Draw isometric views of machine parts.
- \_\_\_\_ 17. Dimension isometric objects.
- \_\_\_\_ 18. Write a script file and create a slide show.
- \_\_\_\_ 19. Create a 3-D solid Model.
- \_\_\_\_ 20. Create a 3-D surface Model.
- \_\_\_\_ 21. Dimension in 3-D space.
- \_\_\_\_ 22. Create multiviews using **mvsetup** command options.
- \_\_\_\_ 23. Draw multi view three-dimensional objects using all types of 3-D coordinates.